

Customer No.: 31561
Application No.: 10/064,613
Docket NO.: 8860-US-PA

REMARKS

Present Status of the Application

The Office Action rejected presently pending claims 1-13. Specifically, the Office Action rejected claims 1, 4-7, 9, 11 and 12 under 35 U.S.C. 102(b), as being anticipated by Ishida et al (U.S. Patent No. 6,069,609). The Office Action also indicated that claims 2, 3, 8, 10 and 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Applicants have amended claims 1, 2, 4, 6, 8-12 to improve clarity and cancel claims 5 and 11. After entry of the foregoing amendments, claims 1-4, 6-10 and 12-13 remain pending in the present application, and reconsideration of those claims is respectfully requested.

Summary of Applicant's Invention

The present invention provides a color adjustment device and method for the plasma display panel. The input value of the gray scale is converted to a gray scale value having a bigger number, then these gray scale figures are used to adjust a brightness output error that is within a predetermined range by using an error diffusion method. With this, the color of the plasma display panel can be adjusted according to the variant parameters that are predetermined in advance, so that the variant precisions can be obtained and the color expression of the plasma display panel can be improved.

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Discussion of Office Action Rejections

The Office Action rejected claims 1, 4-7, 9, 11 and 12 under 35 U.S.C. 102(b), as being anticipated by Ishida et al (U.S. Patent No. 6,069,609, "Ishida" hereinafter). Applicants respectfully traverse the rejections for at least the reasons set forth below.

Ishida reference relates to an image processor using both dither and error diffusion to produce halftone images with less flicker and patterns. In the Ishida reference, the error distribution unit carries out an error distribution operation to artificially increase the number of shades to be displayed on a display. The multiplier multiplies an input signal by a multiplication coefficient, so that the input signal is separated into display data and error data along a bit boundary and the error distribution operation is carried out on the input signal. (Abstract).

As disclosed in Figures 10A and 10B and Col. 12, Line 57-65,

Dither patterns used by the present invention are stored in advance as a table in a storage unit. An optimum one of them is selected according to an input signal and is supplied to the adder 12.

The adder 12 adds the selected dither pattern to the input signal, to forcibly change the threshold of the error data of the input signal. The threshold is usually 8, and if the value A₁ of FIG. 15 is 2, the dither pattern of FIG. 15 will have alternating thresholds 6 and 10.

The dither patterns are determined in advance and stored as a table. The input signal D_n is added with the selected dither pattern to forcibly change the threshold of the error data of the input signal. The structures disclosed in Figures 10A and 10B are totally different from the invention.

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In the invention, a gray scale data is selected from a look up table and an error adjustment is performed according to an error value generated in according with output of the color adjustment device which is used for color adjustment of the plasma display panel.

Ishida reference at least does not disclose "an error diffusion circuit, receiving the selected gray scale data output from the look up table to perform an error adjustment according to an error value generated in according with output of the color adjustment device which is used for color adjustment of the plasma display panel" as defined in amended claim 1, "displaying the gray scale data as a brightness that is within a third range, wherein the number of integers in the third range is less than the number of integers in the second range and is determined by an error diffusion method using an error value" as defined in amended claim 4, and "converting the gray scale input value into a corresponding gray scale data; and adjusting a brightness display according to the gray scale data by an error diffusion method using an error value" as defined in amended claim 9.

For at least the foregoing reasons, Applicant respectfully submits that independent claims 1, 4 and 9 patently define over the prior art references, and should be allowed. For at least the same reasons, dependent claims 6, 7 and 12 patently define over the prior art as well.

CONCLUSION

For at least the foregoing reasons, it is believed that the pending claims 1-4, 6-

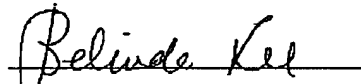
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10 and 12-13 are in proper condition for allowance. If the Examiner believes that a telephone conference would expedite the examination of the above-identified patent application, the Examiner is invited to call the undersigned.

Respectfully submitted,

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